

**To:** Sayles, Gregory[Sayles.Gregory@epa.gov]  
**From:** vanDrunick, Suzanne  
**Sent:** Wed 1/22/2014 6:12:56 PM  
**Subject:** Fw: activity for the WV spill  
report 1 .xlsb

Fyi

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**From:** Jordan, Steve  
**Sent:** Tuesday, January 21, 2014 5:15:47 PM  
**To:** vanDrunick, Suzanne; McDonald, Michael  
**Subject:** FW: activity for the WV spill

Toxicity Information (such as it is) on methyl-cyclohexane methanol (WV chemical spill). See attachment and email comments.

Steve Jordan

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**From:** Hines, Ronald  
**Sent:** Tuesday, January 21, 2014 11:30 AM  
**To:** Hoff, Dale; Benson, William; Tietge, Joe; Jordan, Steve; Robbins, Chris  
**Cc:** Garges, J. Brian  
**Subject:** RE: activity for the WV spill

Dale:

I looked at the MSDS when I first heard about the leak and although no direct testing was available for this compound, the predictions were that it would behave like toluene.

If it does (and perhaps consistent with what you describe as behaving like a narcotic), adult toxicity may not be of as much concern as in utero or childhood exposures. Toluene exposure in utero is known to result in congenital defects somewhat similar to fetal alcohol syndrome and/or alcohol related birth defects. For huffers (glue sniffers, where the most active ingredient is toluene) that expose their unborn child, there is a well described fetal toluene syndrome.

Something to think about.

Ron Hines, PhD

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**From:** Hoff, Dale  
**Sent:** Tuesday, January 21, 2014 11:33 AM  
**To:** Benson, William; Tietge, Joe; Jordan, Steve; Robbins, Chris  
**Cc:** Garges, J. Brian; Hines, Ronald  
**Subject:** RE: activity for the WV spill

Woops, please note the typo in my note to you all.....Its ASTER not ASTOR.

**From:** Benson, William  
**Sent:** Tuesday, January 21, 2014 10:27 AM  
**To:** Hoff, Dale; Tietge, Joe; Jordan, Steve; Robbins, Chris  
**Cc:** Garges, J. Brian; Hines, Ronald  
**Subject:** RE: activity for the WV spill

*Dale*, Very much appreciate “heads up” – thanks!

*Joe and Steve*, Please be sure that Tina and SvD are aware.

*Brian*, Do we need to keep others in the loop?

**From:** Hoff, Dale  
**Sent:** Tuesday, January 21, 2014 10:22 AM  
**To:** Tietge, Joe; Benson, William; Jordan, Steve; Robbins, Chris  
**Subject:** activity for the WV spill

Hey Guys,

Jan Keough asked that I forward this onto you all. Last Friday I sent the attached ASTER report to Region 3's Ecotoxicologist Bruce Pluta. They had requested (through Jim Lazorchack) that we do an ECOTOX lit search and we came up empty. Therefore, I put the SMILES string into ASTOR and at least gave them some predictions.

Dale

Dale Hoff

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**From:** Hoff, Dale  
**Sent:** Friday, January 17, 2014 2:33 PM  
**To:** Pluta, Bruce  
**Subject:** report 1 .xlsb

Bruce,

ASTER didn't have this chemical in its data base, but I was able to find it in ChemSpider. From that website, I got its SMILES string which defines in chemical structure. Then went back into ASTER and it made predictions based off its structure. ASTER labeled its MOA as a nonpolar narcotic and as such gave you some predictions for fathead minnow and a handful of others. ASTER doesn't make it look too toxic.

Dale